

Amendment and Response

Serial No.: 08/981,998

Confirmation No.: 8733

Filed: May 11, 1998

For: NUCLEIC ACID ENCODING SPINOCEREBELLAR ATAXIA-2 AND PRODUCTS RELATED THERETO

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G2 5. (Twice Amended) Isolated nucleic acid, wherein a complement of said nucleic acid hybridizes to nucleotides 1 - 516 of SEQ ID NO:1 or nucleotides 163-4098 of SEQ ID NO:2 in a solution containing 50% formamide, 5X Denhardt's solution, 5% SSPE, 0.2% SDS at 42°C, followed by washing in 0.2X SSPE, 0.2% SDS at 65°C, wherein the DNA encodes a polypeptide of SEQ ID NO:3.

G3 74. (Amended) An isolated nucleic acid comprising a nucleotide sequence set forth at SEQ ID NO:19.

76. (New) An isolated nucleic acid comprising nucleotides 163-657 of SEQ ID NO:2.

77. (New) An isolated nucleic acid comprising nucleotides 724-4098 of SEQ ID NO:2.

G4 78. (New) An isolated nucleic acid consisting of at least about 15 contiguous nucleotides from nucleotides 163-657 of SEQ ID NO:2, and the nucleotides complimentary thereto.

79. (New) An isolated nucleic acid consisting of at least about 15 contiguous nucleotides from nucleotides 724-4098 of SEQ ID NO:2, and the nucleotides complimentary thereto.

80. (New) An isolated nucleic acid consisting of SEQ ID NO:6.

81. (New) An isolated nucleic acid consisting of SEQ ID NO:7.

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82. (New) Isolated nucleic acid, wherein a complement of said nucleic acid hybridizes to nucleotides 50-3454 of SEQ ID NO:4 in a solution containing 50% formamide, 5X Denhardt's solution, 5% SSPE, 0.2% SDS at 42°C, followed by washing in 0.2X SSPE, 0.2% SDS at 65°C, wherein the DNA encodes a polypeptide of SEQ ID NO:5.

83. (New) A vector comprising DNA according to claim 5.

84. (New) A vector comprising DNA according to claim 82.